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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/760,628	01/20/2004	Lambert Zijp	2775/106	8253	
2.0.	590 03/19/2007		EXAMINER		
BROMBERG & SUNSTEIN LLP 125 SUMMER STREET			SHIKHMAN, MAX		
BOSTON, MA 02110-1618			ART UNIT	PAPER NUMBER	
			2609		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
_ <del>`</del>		03/19/2007	PAPER		
3 MONTHS		03/19/2007	IAILK		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

·		App	lication No.	Applicant(s)					
			760,628	ZIJP ET AL.					
Office Action Summary		Exa	miner	Art Unit					
		Max	Shikhman	2609					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period for R	• •	•			,				
WHICHE - Extension after SIX - If NO peri - Failure to Any reply	TENED STATUTORY PERIOD FOR THE MISSION SET IS LONGER, FROM THE MISSION SET IS LONGER, FROM THE MISSION SET IS A COUNTY OF TH	AILING DATE C of 37 CFR 1.136(a). In nunication. atutory period will apply will, by statute, cause to	OF THIS COMMUN in no event, however, may a or and will expire SIX (6) MO the application to become a	IICATION.  a reply be timely filed  DNTHS from the mailing date of ABANDONED (35 U.S.C. § 133	this communication.				
Status									
1)⊠ Re	esponsive to communication(s) file	d on <i>20 Januar</i> y	/ 2004.						
· <u> </u>	•	2b)⊠ This actio							
3) <u></u> Sir	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition	of Claims								
4)⊠ Cla	aim(s) <u>1-28</u> is/are pending in the a	notication							
	Of the above claim(s) is/a		m consideration.						
	aim(s) is/are allowed.								
6)⊠ Cla	aim(s) <u>1-22, 26-28</u> is/are rejected.		•						
7)⊠ Cla	aim(s) <u>23-25</u> is/are objected to.								
8) <u></u> Cla	aim(s) are subject to restric	tion and/or elec	tion requirement.						
Application	Papers								
	e specification is objected to by the	e Examiner							
• •	e drawing(s) filed on <u>20 January 2</u>		accepted or b)	objected to by the Exa	aminer.				
	plicant may not request that any object								
	placement drawing sheet(s) including								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority und	er 35 U.S.C. § 119								
12)⊠ Acl	knowledgment is made of a claim	for foreian priori	tv under 35 U.S.C.	§ 119(a)-(d) or (f).					
•	12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)□ All b)□ Some * c)⊠ None of:								
1.[	1.⊠ Certified copies of the priority documents have been received.								
2.[	2. Certified copies of the priority documents have been received in Application No								
3.[	3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
Association 14.5		•							
Attachment(s)	References Cited (PTO-892)		الماممة المامة	Summary (PTO-413)					
2) Notice of	Draftsperson's Patent Drawing Review (P	TO-948)	Paper No	o(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date Sep 14, 2006. Jul 14, 2004.  5) Notice of Informal Patent Application  6) Other:									

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#### **DETAILED ACTION**

## **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in UNITED KINGDOM on 01/21/2003 and 11/28/2003. It is noted, however, that applicant has not filed a certified copy of the 0301278.8 and 0327675.5 application as required by 35 U.S.C. 119(b).

### Claim Objections

2. Claims 1-28 are objected to because of the following informalities:

In Claim 1, line 4, "that radiation" should be replaced with -- the radiation-- to refer to previously mentioned "radiation".

In Claim 1, line 17, "analyse" should be replaced with -- analyze--.

In Claim 7, line 2, "The craniocordal axis of the patient" should be changed to --a craniocordal axis of a patient-- because "craniocordal axis" and "patient" was not mentioned before in the claims.

In Claim 10, line 1, "the application" should be changed to --an application--, because "application" was not mentioned before in the claims.

In Claims 23 and 26, line 9, "analysing" should be replaced with --analyzing--.

Appropriate correction is required.

# Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4. **Claims 1-22** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

## () Regarding Claim 1:

Claim 1 recites the limitation "selected images". There is insufficient antecedent basis for this limitation in the claim because "selection means" were not mentioned yet.

## () Regarding Claim 9:

Claim 9 recites the limitation "the edge mask". There is insufficient antecedent basis for this limitation in the claim because "the edge mask" was not mentioned in .

Claims 8, 4 and 1.

#### Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 26-28 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

In Claim 26, "A software module" is being recited; however, a software module would reasonably be interpreted by one of ordinary skill in the art as software, per se. This subject matter is not limited to that which falls within a statutory category of invention because it is limited to a process, machine, manufacture, or a composition of matter. Software is a function descriptive material and a function descriptive material is non-statutory subject matter.

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## Allowable Subject Matter

- 7. Claims 23-25 would be allowed if they overcome the objection.
- 8. Claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 9. Claims 2-22 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 10. The following is a statement of reasons for the indication of allowable subject matter:

  The prior art or record does not teach a selection means for selecting images with similar phase from the series for use by the reconstruction means; wherein the selection means is arranged to: collapse the images derived from the series from two dimensions to one dimension by summing the intensities of pixels along a dimension transverse to the one dimension, produce a further image from a composite of the one-dimensional images obtained from images in the series, analyze the further image for patterns, and select from the series images having like phase in that pattern.

#### Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yavuz discloses, "Reconstruction of multislice tomographic images from four-dimensional data."
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Max Shikhman whose telephone number is (571) 270-1669. The examiner can normally be reached on Monday-Friday 7:30AM-5:00PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on (571) 272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Max Shikhman 3/6/2007

Showing Ti

SHUWANG LIU
SUPERVISORY PATENT EXAMINER